

KOVACS, Istvan; TASNADI, Emil; KESERU, Janos

Calling for the registration for the innovators' and inventors' show at the 1962 National Agricultural Exhibition. Ujito lap 14 no.3:8 F '62.

1. Mezogazdasagi es Erdeszeti Dolgozok Szakszervezetek fotit-kara (for Kovacs). 2. Orszagos Talalmanyi Hivatal elnöke, es "Ujito Lapja" főszerkesztoje (for Tasnadi) 3. Foldmuvelesugyi miniszterhelyettes (for Keseru).

KOVACS, Istvan

Agriculture has become part of socialism. Hungarian TU
no.6:11-13 Je '61.

1. General Secretary of the Agricultural Workers Union.

KOVACS, Istvan

"Absorption spectra in the ultraviolet and visible region"
edited by L.Lang. Reviewed by Istvan Kovacs. Magy fiz folyoir
10 no.3:249-250 '62.

1. "Magyar Fizikai Folyoirat" szerkeszto bizottsagi tagja.

KOVACS, Istvan

Quadrangular-wave generator for investigating basic phenomena
of spark machining. Elektrotehnika 55 no.8:363-366 Ag
'62.

1. Kozponti Fizikai Kutato Intezet.

KOVACS, Istvan

Direct-voltage generators of spark-machining installations.
Elektrotehnika 55 no.4:165-171 Ap '62.

1. Altalanos Geptervezo Iroda.

KILB, Gyula, dr.; KOVACS, Istvan

Observation examination of foreign cucumber varieties. Konzerv
paprika no.5:168-171 S-0 '62.

1. Konzerv- es Paprikaipari Kutatointezet (for Kilb). 2. Kecskemeti
Konzervgyar (for Kovacs).

KOVACS, Istvan

Dieselization in the field of navigation in Hungary. Kozleked
kezeli 18 no. 50:913-917 16 D. '62.

KARPATHY, Laszlo, dr.; KOVACS, Istvan, dr.

Unusual metastasis of bronchial cancer simulating gynecologic tumor.
Magy. onkol. 7 no.1:33-35 Mr '63.

1. Baja Varosi Tanacs. V.B. Korhaza Szoleszeti es Nogyogyaszati
Osztaly.

(NEOPLASM METASTASIS) (BRONCHIAL NEOPLASMS) (ENDOMETRIOSIS)
(CARCINOMA, BRONCHIOLAR) (GYNECOLOGIC NEOPLASMS)

KOVACS, Istvan, a mezogazdasagi tudomanyok kandidatusa

"Maize growing experiments, 1958-1960", edited by [Dr] Istvan Iso.
Reviewed by Istvan Kovacs. Magy tud 70 no.1:73-75 Ja '63.

1. Magyar Tudomanyos Akademia Mezogazdasagi Kutato Intezete,
Martonvasar, tudomanyos folyunkatasa.

KOVACS, Istvan

Closing address delivered at the Conference on Manufacturing
Machines for the Food Industry. Elelm ipar 17 no.2:66 F '62.

1. Miniszterhelyettes, Koho- es Gepipari Miniszterium.

KOVACS, Istvan; BENKO, Lazar

Measurement of energy stored in plastically deformed metals
by means of adiabatic calorimeter. Magy fiz folyoir 12
no.1:31-44 '64.

I. Chair of Experimental Physics, Lorand Eotvos University,
Budapest.

1930 1905

L 15651-66 T, EMP(t)/ETI IJP(c) JD

ACC NR: AP6033887

SOURCE CODE: HU/0014/65/098/010/0460/0465

AUTHOR: Kovacs, Istvanne

41

B

ORG: Research Institute of the Metallurgical Industry (Femipari Kutato Intezet)

TITLE: Lattice defects in face-centered pure cubic metals

SOURCE: Kohaszati lapok, v. 93, no. 10, 1965, 460-465

TOPIC TAGS: plastic deformation, crystal lattice defect, tempering

ABSTRACT: A method of determining the physical lattice defects of face-centered cubic pure metals is presented. The creation of defect concentrations by plastic deformation, by radiation treatment and by refrigeration is discussed. Also treated are the influence of tempering on the variation of the physical properties of metals, and the explanation of metallographical phenomena by means of physical metallurgy.
Orig. art. has: 5 figures and 1 table. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 13, 20 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 040

Card 1/1 fv

UDC: 620.18:548.31

R/004/60/000/009/001/001
D244/D306

AUTHORS: Marcus, Bruno; Ciontea, Ion; Kovacs, Iuliu;
Visoiu, Violeta; Diaconu, Lucia; and Soltuz,
Constantin, Engineers (Bucharest)

TITLE: Ceramic capacitors for radio engineering

PERIODICAL: Electrotehnica, no. 9, 1960, 321 - 327

TEXT: The article presents some studies conducted by ICET on producing dielectric ceramic materials from domestic raw materials for P 100 and N 750 capacitors. The material for the P 100 capacitors was developed by ICET on the basis of steatite from the Hunedoara region. For the N 750 capacitors, the ICET developed a material consisting of titanium dioxide, zinc oxide and zirconium oxide. The main components of this material called "Ti 11", (N 750) are TiO_2 , ZnO , with additions of ZrO_2 , Al_2O_3 , and SiO_2 . The main properties vary as follows: $\tg\delta$: ✓
with an increase of TiO_2 the losses drop to $\tg\delta = 4 \cdot 10^{-4}$; with an increase of TiO_2 the constant increases to above 80, in case

Card 1/4

Ceramic capacitors for...

R/004/60/000/009/001/001
D244/D306

of a TiO_2 content of over 80%. $TK\delta$: varies from +180 to -710, in a zone of 33 to 50% of TiO_2 . At temperatures above 1,100°C the crystalline phases are TiO_2 and $ZnO \cdot TiO_2$. Reducing the temperature to 800°C, the latter enters into a solid solution with TiO_2 . The titanium dioxide was of foreign origin. The determination of dielectric losses carried out with 50 capacitors in dry and humid states is given in Fig. 9. 1. number of capacitors 2. tangent of the loss angle 3. in dry state $tg\delta_{med} = 2.53 \times 10^{-4}$ 4. after moistening $tg\delta_{med} = 3.6 \times 10^{-4}$. The loss values are included in a narrow range, the "Gauss bell" having a pointed shape. After having moistened the capacitors for 24 hrs in distilled water the losses slightly increased, the shape of the curve, however, remaining the same. The loss values were maintained within the limits admitted by international standards. The distribution of the values of the dielectric losses was measured with a group of 400 capacitors, again resulting in a pointed curve. It is concluded that the manufacturing of ceramic capacitors from domestic raw materials

Card 2/4

Ceramic capacitors for...

R/004/60/000/009/001/001
D244/D306

is in accordance with the need for a rapid development of Rumanian industry. The results obtained correspond to those of foreign products, proving the possibility of manufacturing these capacitors in Rumania. There are 10 figures, 4 tables and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: M.E. Levin: Phase diagrams for ceramics, Ohio, 1956.

ASSOCIATION: ICET

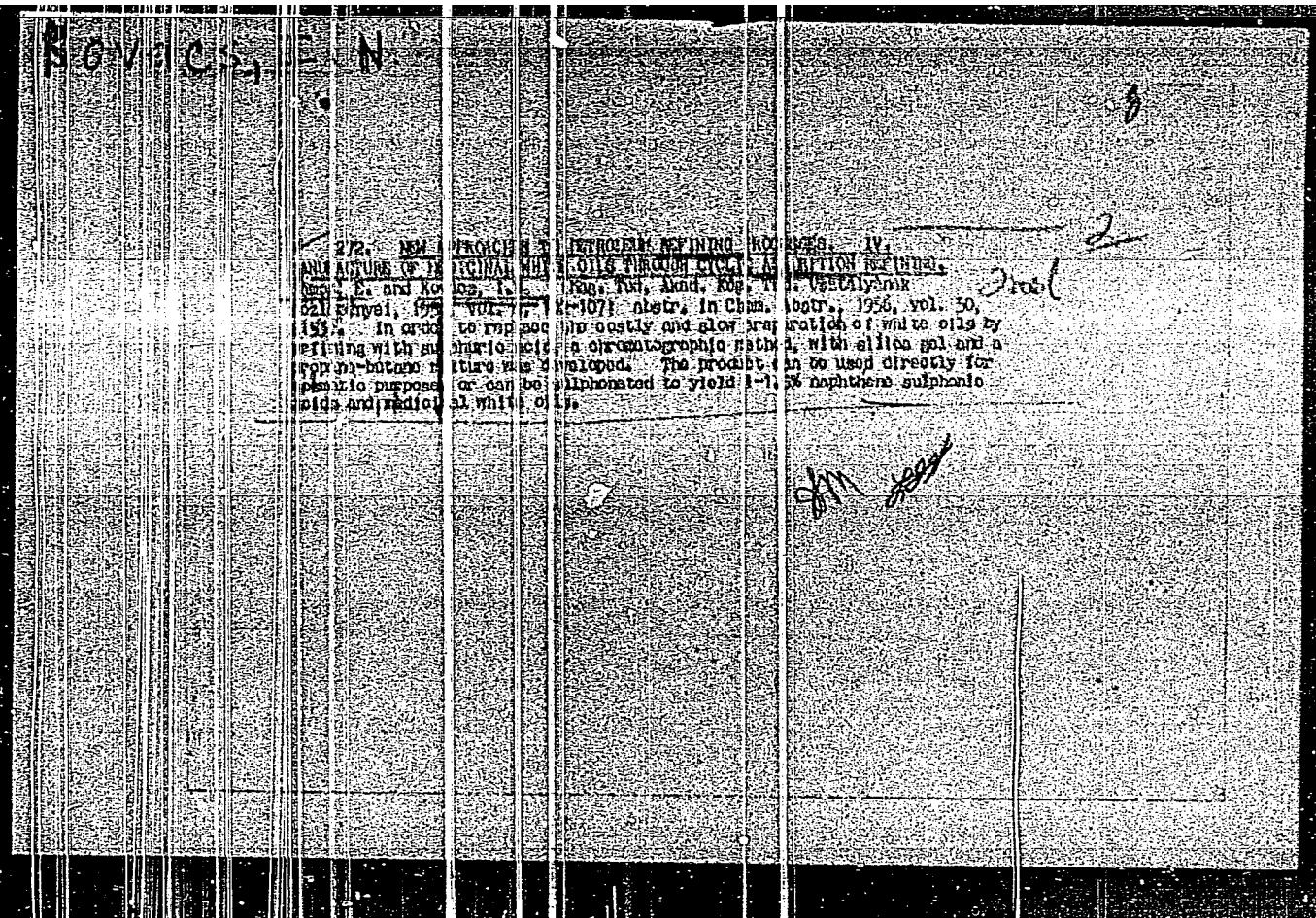
SUBMITTED: April 8, 1960

Card 3/4

ALMASSY, Gyorgy, dr.; BOROMISZA, Gyula; FERENCZI, Jeno; HAAS, Andras; JUHASZ, Endre; KEMENY, Tamas; KOVACS, Ivan; LESETER, Jozsef; LUKAGS, Gyula, dr.; PETIK, Ferenc; SZLAVIK, Ferenc; SZOMBATHY, Emil, dr.; TARJAY, Kalman, dr.

Lectures delivered at the 3d International Measurement Conference.
Meres automat 12 no. 9:270-292 '64.

1. Editorial board member, "Meres es Automatika" (for Almassy, Boromisza, Juhasz, Kemeny, Lukacs and Tarnay).



KOVACS, J.

Change in size of map paper. p. 159, GEODEZIA ES KARTOGRAFIN. (Allami
Foldmieresei es Terkepeszeti Hivatal) Budapest. Vol. 8, No. 2, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, No. 11, November 1956

HUNGARY / Human and Animal Physiology. Action of Physical Agents.

T

Abs Jour: Ref Zhur-Bicl., No 9, 1958, 41839.

Author : Kovacs, J.

Inst : Not Given.

Title : Wounds Caused by Radioactive Irradiation.

Orig Pub: Magyar állatorv. Iapja, 1956, 11, No 10-12, 370-373.

Abstract: No Abstract.

Card 1/1

KOVACS, J. ; SZENTPALY, T.

Determination of the grade of desizing by means of a photometer. p. 404.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet)
Budapest, Hungary, Vol. 10, no. 11/12, Dec. 1958.

Monthly list of East European Acquisitions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

KOVACS, J.; BAROS, L.; SZENTPALEY, T.

The measurement of wettability. p. 478.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet)
Budapest, Hungary. Vol. 11, no. 12, Dec. 1959.

Monthly List of East European Accessions. (EEAI) LC Vol. 9, no. 2,
Feb. 1960 Uncl.

KOVAC, J.

The classification of movements of solid bodies. Pt. 2. (Conclusion)

P. 432. (STROJNOELEKTROTECHNICKY CASOPIS) (Bratislava, Czechoslovakia) Vol. 8,
no. 6, 1957

SOF Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

KOVAC\$, J.

"The classification of movements of solid bodies. (To be contd.)"

p. 361 (Strojnoelektrotechnicky Casopis) Vol. 8, no. 5, 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

All Western references.
1/1

KOVACS, J. Sandor

"Doklady Akademii pedagogicheskikh nauk RSFSR," no.3, 1962.
Reviewed by Sandor J. Kovacs. Magy psichol szemle 21 no.3:
498-500 '64.

KOVAC, J.

"Tamping Earth in the Construction of a Dirt Dam at Belanka", P. 291.
(TECHNICKA, PRACA, Vol. 6, No. 5, May 1954, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4, No. 1,
Jan. 1955, Uncl.

KOVAC, J.

"National Congress on Water Economy in 1954; Hydrology and the
Regulation of Flow," P. 294. (TECHNICKA PRACA, Vol. 6, No. 5, May 1954,
Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions, (EFAL), IC, Vol. 4,
No. 1, Jan. 1955, Uncl.

KOVAC, J.

"Lowering the Level of Underground Water in the Brown Coal Area of Southern Slovakia", P. 386 (TECHNICKA PRACA, Vol. 6, No. 7, July 1954, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

Kovac, J.

Measurement of soil resistance to shear using a three-axle apparatus
in our laboratories for soil mechanics. p. 59. INZENYRSKE STAVBY.
(Ministerstvo stavebnictvi) Praha. Vol. 4, no. 2, Feb. 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

SZENTPALY, Tiborne; KOVACS, Janos

Mercerization of fabrics made of a mixture of cotton and viscose.
Magy textil 13 no.5:195-197 My '61.

1. Textiliipari Kutato Intezet.

RUSZNAK, Istvan, dr.; SZENTPALY, Tiborne; KOVACS, Janos

Properties and finishing methods of mixture fabrics made of cotton
and viscose. Magy textil 13 no.6:225-229 Je '61.

1. Textilipari Kutato Intezet munkatarsai.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8

GECZY, I., dr.; BERCSENYI, J. Gy.; KOVACS, J.

Testing the factors influencing the pigment fixation.
Magy textil 16 no. 1462-465 0 '64.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8"

KOVACS, Janos (Budapest)

The second track of the Kisujszallas-Apafa railroad line. Vasut
15 no.2:3-4 F '65.

1. Hungarian State Railways.

KOVACS, Janos

Reviewing the 65-year-old bridge shoes. Koh lap 97 no.7: Suppl:
Ontode 15 no.7:162-163 Jl '64.

1. Ganz-MAVAG.

KOVACS, J.; PECZELY, P.

Electron microscopic examination of the effect of neutral red
on the epithelial cells of the seminal vesicle of the mouse.
Acta biol. acad. sci. Hung. 16 no.3:275-283 '66.

1. Institute of General Zoology, Eotvos Lorand University,
Budapest (Head: G. Mödlinger). Submitted May 14, 1965.

KOVACS, J.; HAFIEK, Barbara.

Effect of neutral red on mouse liver cells. Acta biol. Acad. sci. Hung. 15 no. 2:191-201 '64

1. Department of General Zoology, Sotvos Lorand University,
Budapest (Head: G. Mcilinger).

KOVACS, Janos

Twenty free years in the cultural life of railroad workers.
Vasut 15 no.3;18-22 Mr '65.

1. Trade Union of Railroad Workers.

KOVACS, Janos

For the success of the railroad traffic in the winter. Kozleked
kozl 21 no.2:34-36 10 Ja '65.

1. Ministry of Transportation and Postal Affairs, Budapest.

SZABO, Margit; KOVACS, Jancsó

Corrosion of brass pipes of the sugar factory evaporator. Cukor
18 no.3:77-84 Mr '65.

1. Central Research Institute of Food Industry, Budapest.

KOVACS, Janos

Conference of socialist brigade leaders of the Budapest
Railroad Directorate. Magy vasut 8 no. 11:2 4 Je '64.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8

KOVACS, Janos

Some experience with the work of trade-union stewards in Budapest.
Magy vasut 7 no.12:2 17 Je '63.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8"

KOVACS, Janos, szaktanar

A rare collection of carburetors. Auto motor 16 no.6:11
21 Mr '63.

1. Munkaagyi Miniszterium 208-as Intezete.

KOVACS, Janos

"The Party counts on the diligence of railroaders"; Comrade
Janos Brutyo's visit to the Ferencvaros railroad station.
Magy vasut 7 no.22. 16 N'63.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8

KOVACS, Janos

Polish senior championship for the "Skrydla Polska" cup.
Repules 16 no.12:16 D '63.

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CIA-RDP86-00513R000825510002-8"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8

KOVACS, Janos

Disciplinary punishment or service interest? Magy vasut 7 no.23:
2 2 D '63.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8"

KCVACS, Janos

Cytophysiological studies on the Leydig cells of the mouse testis.
Acta biol Hung 11 no.1:7-14 '60. (ERAI 10:4)

1. Institute of General Zoology, Eotvos Lorand University of Sciences, Budapest (Head: G. Modlinger)
(CELLS)
(TESTICLE)

KOVACS, Janos

Railroad timetable and return of locomotives. Vasut 12 no.12:1-2
D '62.

1. MAV Vezetrigazgatosag I/8A osztaly helyettes vezetoje.

KOVACS, Janos

Cultural weeks of railroadmen; a mass movement. Munka 12
no.8:27 Ag '62.

1. Vasutas Szakszervezet budapesti kulturalis bizottsaganak
vezetöje.

KONACS, Janos

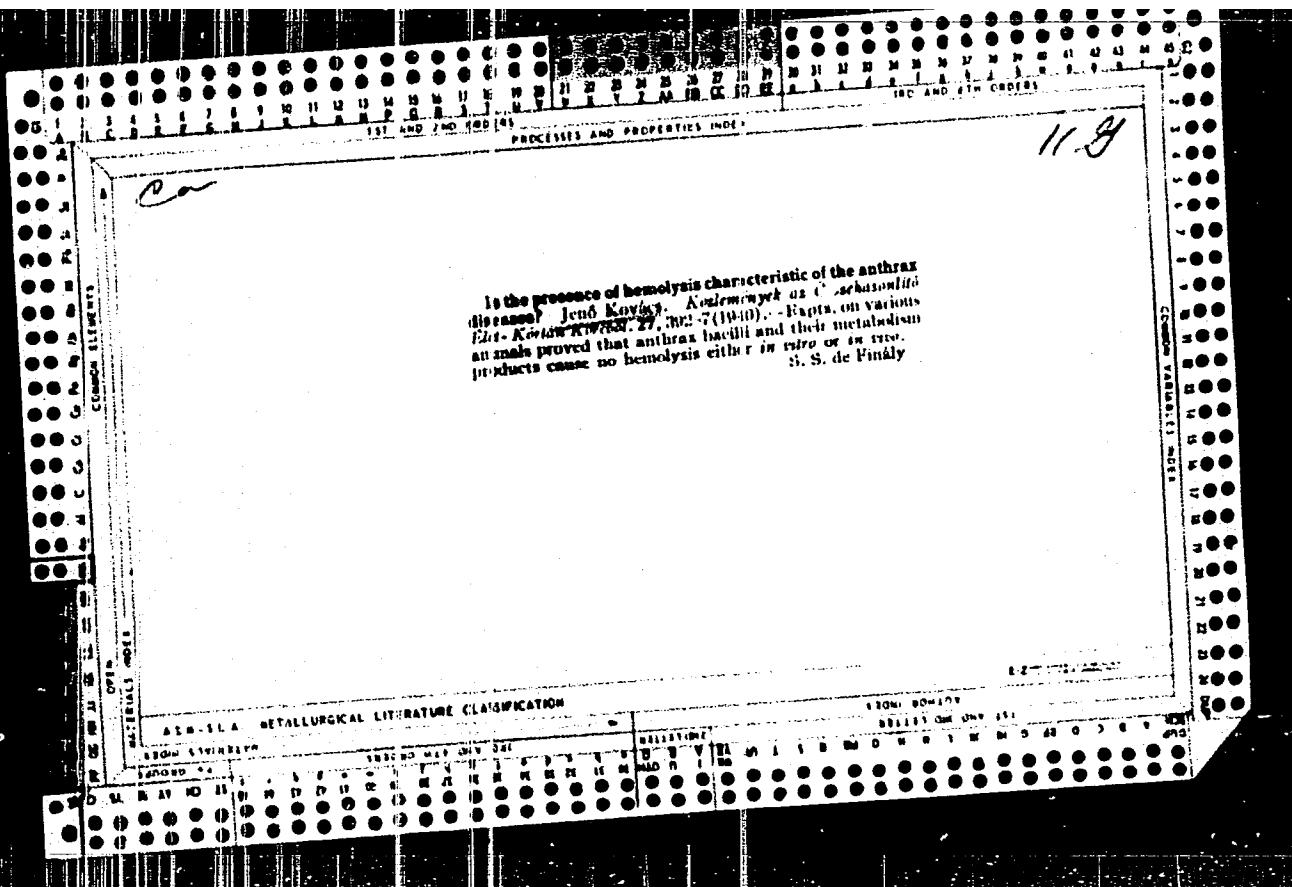
Running passenger trains as scheduled in the timetable.
Vasut 13 no.411-2 Ap '63.

1. I/8 A osztaly hellyettes vezetoje.

04

116

Bromatometric determination of *L*-ascorbic acid (vitamin C). Bleeker Schulek and Jenö Kugler. *Ber. Impar.* pharm. Ges. 16, 381-8(1940). Take as much of the substance into a 100-cc. Erlenmeyer flask as contains 1-200 mg. ascorbic acid and dil. with water to a vol. of about 10 cc. Dissolve 0.5 g. Klt and add 5.00 cc. 10% HCl. Add 1 drop of a 0.2% alc. soln. of *p*-ethoxyethylsodium-HCl and introduce as much of a 0.1 or 0.01 N soln. of KBrO₃ as is needed to remove the red color. Each cc. of a 0.01 N KBrO₃ soln. equals 0.8805 mg. *L*-ascorbic acid. The procedure is suitable for the investigation of drug preps., contg. condensed milk, sugar and cacao butter as sources of ascorbic acid. S. S. de Fandy

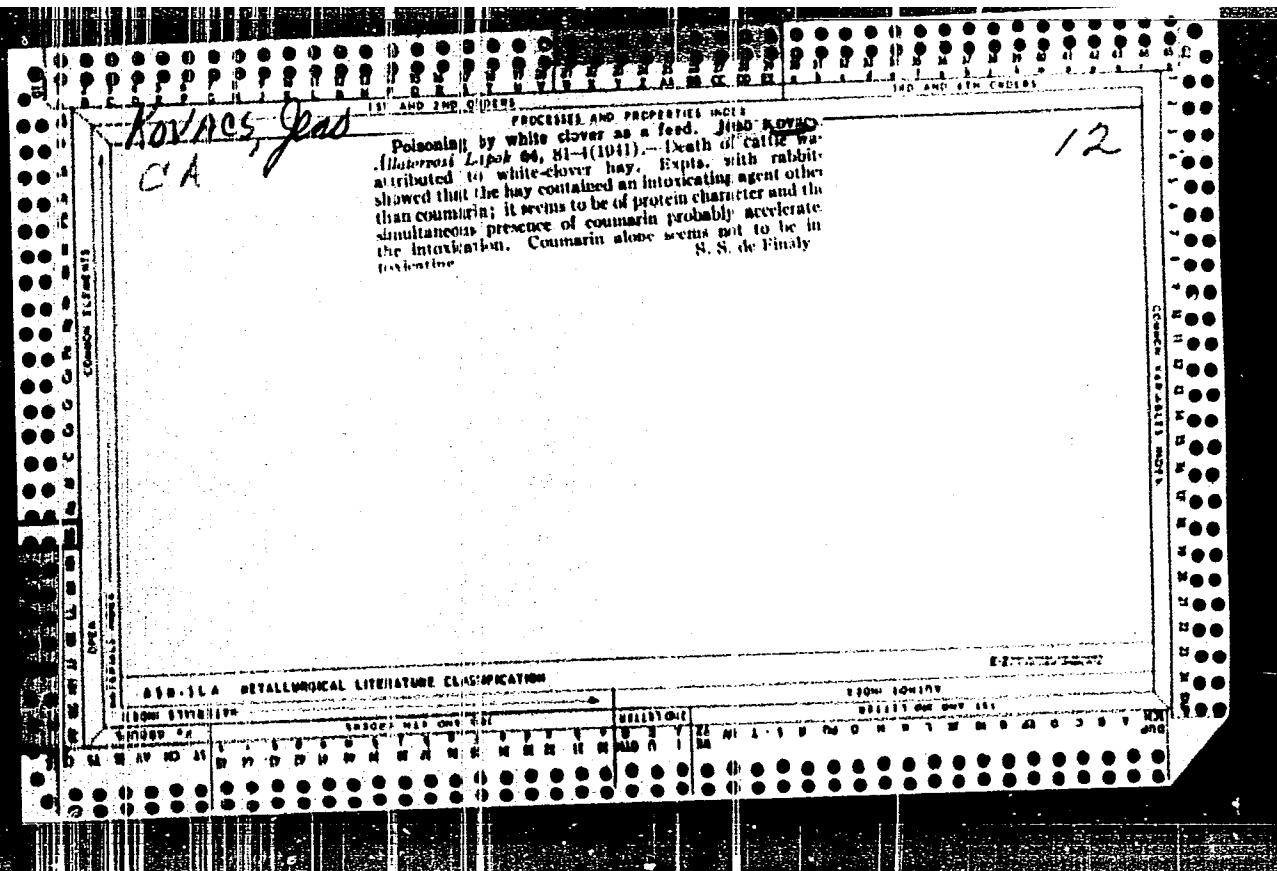


Comparative physico-chemical investigations on the caseins of various domestic animals. Ispn. Kovalevskaya, Kremlyevsk. Ossobozhdenii Eliz.-Kovalevskoy 27, 412-13 (1940).—Casein was freed from the milk of cows, sheep, goat, horse and ass by dropping 0.05 N HCl into the milk with continuous stirring until casein pptd. in form of fine floccules. The ppt. was rubbed with much 1% NaCl soln. and decanted wth. 8 l. distd. water 4 times. After sedimentation the ppt. was centrifuged and treated with again, and finally filtered and washed with 90% alc., then abs. alc. and abs. ether. The product was powd., extd. in a Soxhlet app. 8 hrs. with ether, and dried in vacuo over concd. H_2SO_4 . The casein yield from 3 l. milk was 108 g. for sheep milk, 70 g. for cow milk, 26.6 g. for horse milk, 65 g. for goat milk and 20 g. for ass milk. The ΔE values (distance in m.) of the max. and min. values of the absorption curves were 4.61 (cow), 3.61 (sheep), 3.10 (goat), 2.05 (horse) and 2.60 (ass). The α_1 values were 104.5%, 114.7%, 107.52%, 98.7% and 110.4%; tyrosine contents 5.90, 5.39, 4.82, 5.38 and 4.63%; tryptophan contents 1.63, 1.51, 1.39, 1.18 and 0.87%; P content 0.84, 0.89, 0.81, 0.92 and 0.93%; S contents 0.82, 0.73 and 0.88% (not detd. in horse- and ass-milk caseins). The actual differences in the properties of the caseins of the milk of various domestic animals are large enough to

det. the origin of pure casein prepns.; they do not give a reliable base for judging the amount of various caseins in mixed casein prepns. (e. g., in cheese). Casein investi-
gation seems not to be suitable for food-control service.
S. S. de Finley

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CIA-RDP86-00513R000825510002-8"



12
12

1. Suitability for human consumption of the meat of cattle killed by arsenic intoxication. Jenő Kovács (Univ. Agr. Sci., Vet. Faculty, Budapest, Hung). *Magyar Allatorvosi Lapja* 4, 277-9 (1949).—The meat of cattle killed by arsenic intoxication contained 1.0-20.0 mg./kg., their bellow 1.0 mg./kg. As₂O₃. Meat below 5 mg./kg. As₂O₃ content is judged to be suitable for human consumption. Meat with higher As content was processed to powd. meat, the product contained 0.68-10.6 mg./kg. As₂O₃ at a 10-11% moisture content. It can be mixed to feed in anima. up to 10%.

János Pinty

KOVACS, J.

Kertesz, F.; Kovacs, J. "The Latest Hungarian Findings Relative to Increasing the Fertility of Mangalica Sows through Feeding" p. 341 (Agrartudomany, Vol. 5 No. 11, November, 1953, Budapest)

SO: Monthly List of Acquisitions, Library of Congress, March 1954
East European Vol. 3, No. 3
1954
1958, Uncl.

KOVACS, J.

Temperature and humidity conditions in open and closed pigpens during winter for farrowing swine. p. 21. (Magyar Mezogazdasag, Vol. 11, no. 3, Feb. 1956 Budapest)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

KOVACS, J.

KOVACS, J. How to increase the fecundity of sows. p. 19

Vol. 11, no. 8, Apr. 1956

MAGYAR MEZOGAZDASAG

AGRICULTURE

Budapest, Hungary

So: East European Accession, Vol. 6, No. 3, March 1957

KOVACS, J.

kovacs, J. Results of breeding white meat pigs in 1955 at
Keszthely. p. 24

Vol. 11, No. 10, May 1956

MAGYAR MEZAGAZDASAG

AGRICULTURE

Budapest, Hungary

SO: EAST EUROPEAN ACCESSIONS, VOL. 6, No. 3, March 1957

KOVACS, J.

KOVACS, J. Mechanization of farms for hog breeding and feeding. p. 20.

Remembering Imre Ujhelyi. p. 21.

Vol. 11, no. 15/16, Aug. 1956

MAGYAR MEZŐGÁZDASÁG

AGRICULTURE

Budapest, Hungary

See: East European Accession, Vol. 6, No. 5, May 1957

KOVACS, J.; KOVACS, G.

Important game diseases in the Tukk Mountains. p. 68. (Az Erdo, Vol. 6, No. 2, Feb 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

KOVACS, J.

Diurnal changes in the interstitial cells of the testicles of albino mice. In English, p. 69

ACTA BIOLOGICA Budapest, Hungary Vol. 10, No. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9 No. 2, Feb. 1960
Uncl.

KOVACS, J.

What veterinary hygiene expects from the Hungarian pharmaceutical industry.
p. 151.

MAGYAR KEMIKUSOK LAJJA. (Magyar Kemikusok Egyesülete) Budapest, Hungary
Vol. 1h, no. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 3, No. 8,
August 1959.
Uncla.

HUNGARY

KOVACS, Jeno, Dr; University of Veterinary Medicine, Department of
Pharmacology (Allatorvostudomanyi Egyetem Gyogyszertani Tanszake)
(chairman KOVACS, Jeno, Dr, professor, Dr of Veterinary Sciences)

"Experiences with the Insecticide Containing Trichloro-Dimethyl-Oxyethyl-Phosphonate."

Budapest, Magyar Allatorvosok Lapja, Vol 17, No 12, Dec 62, pp 444-446.

Abstract: [Author's English summary modified] In Hungary the fly population is becoming resistant to contact insecticides on an increasing scale. The author reports his studies on a domestically produced insecticide of a new molecular structure, trichloro-dimethyl-oxyethyl-phosphonate. A combination of active substance, surface material and attractive substance gave immediate good effects and its residual activity lasted 1-6 weeks. On recently whitewashed surfaces the compound is rapidly inactivated. The death of the flies is caused by exsiccosis caused by the organic ester of phosphoric acid.

[no references]

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KOVACS, Jeno

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825510002-8"

Ophthalmological aspects of infectious diseases of animal origin.
Szemeszet 99 no. 1: 31-36 Mr '63

1. Budapesti Risiipari Allatorvos Ellenorzo Szolgatalat. (Igazgato:
Mehes Gyorgy dr. foallatorvos)
(OPHTHALMOLOGY) (BRUCELLOSIS) (LEPTOSPIROSIS) (LISTERIA INFECTIONS)
(TOXOPLASMOSIS, OCULAR) (ECHINOCOCCOSIS) (FOOT-AND-MOUTH DISEASE)
(AVIAN LEUKOSIS) (ZOOSES)
(PLEUROPNEUMONIA-LIKE ORGANISMS).

KOVACS, Jeno, dr., meg.vi vezeto orallatorvon (Szekszard); MAGYARI, Jeno, dr.;
NYITEDY, Istvan, dr., az orallatorvostudomanyok doktora (Budapest)

Protecting dairy cattle against Streptococcus mastitidis. Magy
allatorv lap 19 no.5:209-210 My '64

1. Head, State Animal Hospital, Szekszard (for Magyari).

KOVACS, Jeno, fomernok

Specialization of foresters in the service of technical development. Erdo 13 no.9:402-406 S '64.

1. Western Bukk State Forestry, Eger.

SZABO, Pal Zoltan; JONAS, Klara, dr.; VARADI, Gyorgy; BIRO, Antal;
UPOR, Endre; RADO, Aladar; CZIRJAK, Imre; KOVACS, Jeno;
VALKO, Endre, dr.; ADONYI, Ivan; FODOR, Gyorgy; OSZETZKY,
Egon; KALMAR, Pal; DANYI, Dezsö; GYORGY, Karoly; OVARI, Antal;
PHILIP, Miklos; BAKAI, Laszlo; JOO, Oszkarne; SZITAS, Lejos;
HELENFYI, Miksa; KOLTA, Janos.

Formation of an uniform country organization for the Federation
of Technical and Scientific Associations. Pecsi musz
szeml 8 no. 4.19-23 - O-D'63.

1. "Pecsi Muszaki Szemle" főszerkesztője (for Fodor).
2. "Pecsi Muszaki Szemle" szerkesztői (for Hellenyi, Kolta
and Oszetzky).

ADAMKO, Jozsef; KOVACS, Jepo, fomernok; V. SZABO, Ferenc

A well developed technology requires a new management in the forest districts. Erdo 12 no.5:199-203 My '63.

1. Nyugatbukki Allami Erdogazdasag igazgatoja, Eger. (for Adamko).
2. Nyugatbukki Allami Erdogazdasag erdeszetvezetoje, Eger(for V. Szabo).
3. Nyugatbukki Allami Erdogazdasag, Eger. (for Kovacs).

KOVACS, Jenone [translator]

An exhibition on nuclear fission in the United States; Geneva, 1948.
Atom taj 2 no.2;8/A-48/A Ap '59.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8

BICKERTON, R.J.; JUKES, J.D.; KOVACS, Jenone [translator]

Direct conversion of thermonuclear energy to electrical power.
Atom taj 2 no.2:83-96 Ap '59.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8"

GYOKOS, Imre; KOVACS, Jolan; KARVAZY, Dezsö

New method for planning the costs of machine building. Magy
ep ipar 12 no.9t425-430 '63.

HUNGARY/Chemical Technology - Chemical Products and Their
Application. Ceramics. Glass. Binders. Concrete.

H-13

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25986
Author : Kovacs Jozsef, Naray-Szabo Istvan, Novak Andras
Inst : -
Title : Production of Acid-Resistant Concrete by Means of a Gas
Treatment.
Orig Pub : Magyar Epitoipar, 1957, 6, No 3-4, 139-142.
Abstract : Description of a method of treatment of concrete articles
with SiF₄ under pressure, to increase the resistance of
such articles to the action of acids and salts.

Card 1/1

- 31 -

KOVACS Jozsef

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Concrete carbonizing in Hungary. p. 259.

STAVIVO. (Ministerstvo stavebnictvi) Praha, Czechoslovakia. Vol. 37, no. 8, Aug.
1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. Uncl.

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CIA-RDP86-00513R000825510002-8

KOVACS, Jozsef

Conference on concrete corrosion. Epites szemle 5 no.7:223-225 '61.

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CIA-RDP86-00513R000825510002-8"

KOVACS Jozef

Mathematical Review
June 1954
Mechanics

10-4-54 11-

(1)
Kováč, Jozef. Contribution to the proof of Hartmann's theorem. Mat.-Fyz. Sborník Slovensk. Akad. Vied Umenie 1, 51-58 (1951). (Slovak. Russian summary)

In this paper the method of vector analysis is applied to prove Hartmann's theorem which is used for a simple construction of the center of curvature of the trajectory of a point of a rigid system in its motion in the plane.

Author's summary.

KOVACŠ, JOZEF

"Kinematika. Bratislava, Vydatel'stvo Slovenskej vysokej skoly technickej, 1951.
135 p. (Kinematics; a textbook)"

SO: East European, L. C. Vol. 2, No. 12, Dec. 1953

SO: Monthly List of Russian Accessions, Library of Congress, _____ 1953, Uncl.

KOVAC\$, JOSEF

Teoreticka kinematika. Schvalene ako pomocna kniha pre vysoke skoly.
(Vyd. 1.) Bratislava, Slovenske vydavatelstvo technickej literatury,
1955. 243 p. (Theoretical kinematics; approved as a manual for schools
of higher education. 1st ed. bibl., diagrs., index)

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

HUNGARY / Farm Animals: General Problems.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7283

Author : Kallai, Laszlo; Muhrad, Andras; Zoldy, Miklos;
Kovacs, Joszef; Bernus, Janos

Inst : Not given
Title : The American Artichoke (*Melianthus tuberosus*
L.) as a Feeding Agent. I. The Effect of the
Carbohydrates of Artichoke Tubers on the in
vitro Function of Intestinal Microorganisms

Orig Pub : Allattenyesztes, 1957, 6, No 2, 169-176

Abstract : As a result of biochemical investigations in
which the method of an "artificial rumen"
was applied, the authors established that the
carbohydrates of the American artichoke (inu-
lin and fructose) influence the vital acti-
vity of the microorganisms of the rumen more

Card 1/2

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Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7283

favorably, represent more abundant sources
for energy in the synthesis of carbamide
Uros and decomposition of cellulose than
carbohydrates which are predominant in pota-
toes or in forage feeds (starch, glucoso). --
B. A. Kanzyuba

Card 2/2

JANCSO, Janos; KOVACS, Jozsef

Mechanization and assembly line system in the fur industry. Bor
cipó 12 no.5/6:169-172 0 '62. (MIRA 15:8)

1. Pannonia Szormakikesszito és Konfekcionalo Vallalat. 2. "Bor- es
Cipotechnika" szerkeszto bizottsagi tagja (for Jancso).

KOVACS, Jozsef

Snow barricades along the tracks. Magy vasut 7 no.4:3 18.1.63.

KOVACH, Jozsef

Our woman delegate has done an excellent job; the portrait of
a delegate to the Party Congress. Magy vasut 7 no.2:5 17 Ja
'63.

KOVACS, Jozsef

First experiences of the reorganization in the Small Motor
and Machine Factory. Munka 13 no.6:22-23 Je '63.

1."Nepszabadsag" munkatarsa.

KOVACS, Jozsef

Let us increase the level of the special mechanical trades.
Magy ep ipar 12 no.4:145-147 '63.

1. Orszagos Epitoipari Igazgatosag vezetoste.

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CIA-RDP86-00513R000825510002-8

KOVACS, Jozsef, (Budapest); BARTHAZI, Istvan, uzemvezeto (Gyongyos)

Motorists' letters. Auto motor 16 no. 14; 5 21 Jl '63.

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CIA-RDP86-00513R000825510002-8"

KOVACS, Jozsef

Protection of reinforced concrete basins by SiF₄ gas treatment.
Magy ep ipar 12 no.5:219-220 '63.

KOVACS, Jozsef

Operation of No. 520 locomotives. Magy vasut 7 no.12:1 17 Je
163.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8

KOVACS, Jozsef

What is new in Nyirugyhaza? Magy. vasut '7 no.13:6 2 Jl '63.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825510002-8"

Availability of nitriles for the synthesis of 1-substituted 3-nitro-6,7-dioethoxyquinoxalines. József Kertész (Univ. Szeged, Hungary). *Acta Univ. Szegediensis, Acta Chem. et Phys.*, [N.S.] 1, 109-44 (1943).—A cheap method for the production of 3,4-dioxy-1-propenylbenzene using sodium (II) as the basic substance was sought. The best procedure found was treating I under pressure with KOH in EtOH or MeOH, thus obtaining mixt. of methoxyisougenol and methoxyisobavilol. This mixt. in aq. alc. was treated with small amts. of concd. H₂SO₄ and 4-propenylpyruvate addnl., and, in the presence of K₂CO₃ and RbI or RbBr, ethylated to 3,4-dioxy-1-propenylbenzene (III), m. 64°, in 85% yield. The following were also obtained: 3,4-dioxy-1-propenylbenzene pseudodisulfite (III), m. 124.5-5.8° (decompn.), 53% yield, calcd. on the amt. of the II used; 1-(3,4-dioxyphenyl)-2-utropropyl acetate (IV), colorless large prisms, m. 75°, prep. in 60% yield from III; 3,4-dioxy-1-(2-nitropropenyl)benzene, prep. from IV, large prisms or fine needles or shiny thin sheets according to the alc. content of solvent, m. 50.5°; 1-(3,4-dioxyphenyl)-2-acetamido-1-propanol (V), prep. from IV in 65.8% yield; white crystals, m. 128°; 1-(3,4-dioxyphenyl)-2-aminopropyl acetate-HCl (from V), m. 102°; 1-(3,4-dioxyphenyl)-2-(N-ethylhydroxamino)-1-propanol (VI), from V in 80% yield, m. 110.5° (its alc. soln. gives a violet color with FeCl₃ soln.); 1-(3,4-dioxyphenyl)-2-hydroxyminopropyl acetate-HCl, prep. from VI, m. 138.5-9.5° (decompn.); 1-(3,4-dioxyphenyl)-2-amino-1-propanol, prep. from V in 93% yield, m. 118-20° (HCl salt), m. 120.7°; 1-(3-methyl-6,7-dioethoxyquinoxaline-

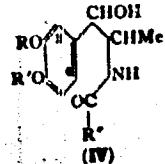
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10 AND 11TH COLUMNS
10 AND 11TH COLUMNS

DISCUSSION OF THE CLOSURE OF ISOQUINOLINE RINGS.

Isoquinolines. Closure of the isoquinoline ring. Victor to the series of reactions $\text{--CH}_2\text{CHMe} + \text{NO}_2 \rightarrow \text{--CH}(\text{NO}_2)\text{CH}_2\text{Me} + \text{AcO} \rightarrow \text{--CH}(\text{OAc})\text{CH}_2\text{Me} + \text{electrolyte reduction, then NaClO}_2 \rightarrow \text{--CH}(\text{OH})\text{CH}(\text{NH}_2)\text{Me} + \text{R}'\text{COCl} + \text{NaOH} \rightarrow \text{IV}$, and closing the ring by treating IV with POCl_3 . As the products thus obtained were not identical with those from basillin and hematoxillin, P., B., and S. concluded that the ring closure had taken place at the 2-, not the 9-C atom of IV. It therefore seemed desirable to check the structure or the direction of ring closure of all the isoquinolines which had been prep'd. by the above method, especially as Sugawara and Shigebara (C.A. 35, 5113) had pointed out that the direction of ring closure in the prepn. of the isoquinoline neupeverine required verification. It was first of all undertaken to det. the influence of the ether groupings (RO and R'O) on the direction of the ring closure, and the 1,3-dimethoxyisoquinolines (I, R' = Me), with R, R' = Me, Me, Et, Et (VI), Me, Et (VII), Me, PhCH₃ (VIII), and PhCH₃, PhCH₃ (IX), all of which were readily obtained from the acetylaminines of type III, were investigated. Since all are genetically related (see below) it was necessary to det. the structure of only 1 of them (V). This was accomplished by exhaustive methylation and KMnO_4 oxidation of the end degradatory product through the following series of reactions:



$\text{CaH}_2\text{CH}_2\text{CHMe}$ by the method of B. and v. Fodor (C.A. 32, 3000), which consists in subjecting the side chain

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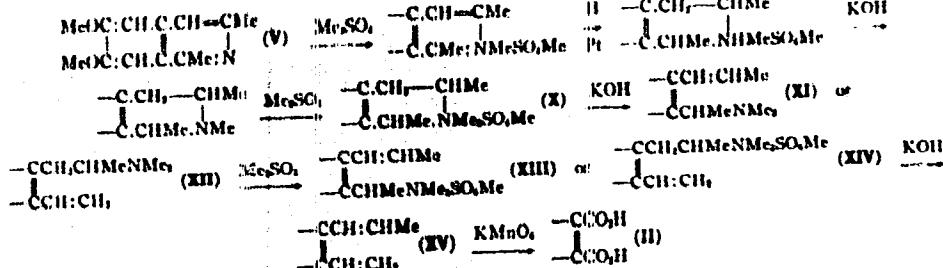
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in. 207-9° (decomp.), and with Li_2SO_4 it yielded VI (KCl salt, m. 236-8° from alc., Et_2O). VII, from 1,3-dimethyl- β -methoxy-7-hydroxyisopropylidine and Et_2SO_4 , needles from aq. alc., changing to minute prisms at 100° in aq. m. 128-30°. VIII was also prep'd. from heptenol-1-ether, 16 g., of which, in 100 cc. ether, added to 30 g. NaNO_2 under 40 cc. water, layered, treated dropwise in the course of 4 hrs. with 60 cc. of 20% H_2SO_4 , and the resulting product thoroughly washed with water, alc., and ether, and dried at room temp. gave 14 g. of the pseudo-nitrate, m. 110° (decomp.), after ribbing with much alc. and washing repeatedly with ether; 24.5 g. of the crude product suspended in 75 cc. of AcO_2 was treated with a few drops of concn. H_2SO_4 , and after it had dissolved, with vigorous evolution of nitrogen gases, the soln. was vigorously stirred with much water until the excess of AcO_2 had been destroyed, and the yellow try. product was thoroughly washed with water, dried, and crystd. from MeOH after treatment with charcoal, giving 20 g. 1-(β -methyl-4-ethoxyphenyl)-2-nitropropyl acetate, prisms from MeOH , m. 85-8°; 20 g. of this was reduced electrolytically (U.A. 37, 6030) (catholyte, 75 cc. glacial $\text{AcOH} + 150$ cc. alc. + 85 cc. alc. H_2SO_4 ; 1000; b.p. by vol.); anolyte, 20% H_2SO_4 ; 1 lg cathode; peroxidized Pb plate anode; cathodic e.d., 0.07 amp./sq. cm.; temp., 25-30°; current used, 2 times the calc'd.), then treated with a concd. aq. soln. of 40 g. crystd. NaOAc , filtered from the Na_2SO_4 ,

30 g. in 300 cc. of 80% alc. Hydrogenated with 0.5 g. Pt oxide took up 2 mols. H in 2 hrs., and evapn. in vacuo gave a yellowish oil yielding from acetone-ether 18.5 g. of the *1,2,3,6-tetrahydroderivative*, XVI, prisms from abs. MeOH, m. 176-8°; 18 g. of this in 40 cc. water with 35 cc. of 20% KOH gave an oil which was shaken out portionwise with benzene, the benzene ext. dried with Na₂SO₄, heated 0.5 hr. on the water bath with 15 cc. Me₂SO₄, cooled, and decanted from the oily ppt., which was repeatedly washed with ether and treated with a little acetone, whereupon it crystallized, giving 6 g. (+5 g. more from the mother liquors after addn. of ether) of the *1,2,3-trimethyl-4,5-dimethoxy-1,2,3,4-tetrahydroquinolinium-Me₂SO₄*, X, m. 220° (from abs. MeOH-Me₂CO). When 6 g. was heated on the water bath with 60% KOH and the oil which sepd. on cooling was taken up in ether, there was obtained 3.6 g. of the open-chain base (XI or XII) as a thick colorless oil which eagerly absorbed Br in CHCl₃; picrate, C₁₄H₁₄N₃O₇, yellow needles from water, m. 145°; HCl salt, needles from alc.-ether, m. 103-5° (decompn.). The base (3.4 g.) in 13 cc. anhyd. benzene, heated 0.5 hr. on the water bath with 5 cc. Me₂SO₄ and, after cooling, treated with 150 cc. abs. ether, yielded 4.5 g. of the compd. XIII or XIV, hygroscopic needles from MeOH-H₂O,inters 110°, m. 110-20°, after drying in vacuo over P₂O₅. *1,3-Dimethyl-6,7-dihydroxyquinoline*, pale greenish yellow, evapd. in vacuo, treated with excess of concd. Na₂CO₃ soln., and the solid product washed with water, dried, and crystd. from MeOH-AcOEt, giving 14 g. *1-(3-methoxy-4-ethoxyphenyl)-2-acetamido-1-propanol* (III), needles, m. 108-9°; 2 g. of this in 25 cc. toluene stable to POCl₃ (C.A. 32, 3419P), gently boiled 1 min. with 2 cc. POCl₃, yielded on cooling 1.3 g. of the HCl salt, needles from alc.-AcOEt, m. 200°, of VII.

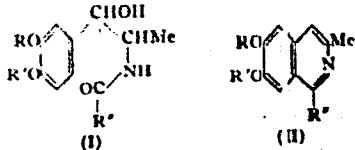
C. A. R.

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Determination of the constitution of some synthetic isoquinolines. Isoquinoline ring closure. II. G. Bruckner, Jr., Jenő Kókay, and János Nagy (Univ. Szeged, Hungary). *Ber.*, 77B, 710-14 (1944); cf. *C.A.*, 40, 6000. — In Part I it was shown that the intra mol. condensation of 1-(3,4-dialkoxyphenyl)-2-acetum do-1-propanols (*I*, R, R' = Me, Et, or PhCH₂; R'' = Me) always gives 6,7-dialkoxo-1,2-dimethylisoquinolines (*II*), regardless of the nature of R and R'. It has been found that this is also true of 1-(3,4-methylenedioxophenyl)-2-phenylacetamido-1-propanol, thus confirming the structure (*II*). It + R'' = CH₃O, R'' = PhCH₂) previously assigned (*C.A.*, 30, 3699) to the condensation product (*III*). The structure of *III* was established by oxidative degradation to hydroxylic acid (*IV*) and the N-free product (*V*) obtained by exhaustive methylation of *III*. *III* Me₂SO₄ (45 g. from 39 g. *III* in 300 cc. benzene heated 1 hr. on the water



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the structure of V remains in doubt; it absorbs only 2 atoms of Br in CHCl_3 in the cold and hence there is a possibility that the side chains have formed a ring.

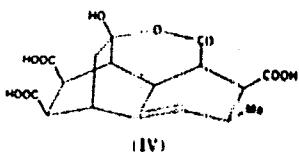
C.A.R.

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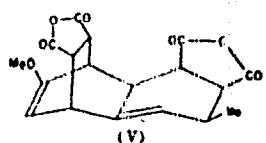
The possibility of the existence of aliphatic nitroso compounds. J. Kovács, *Acta Univ. Szeged. Chem. et Phys.*, II, 23-30 (1948).—To 10 g. ArCH(OAc)CH(NO₂)Me (I) (Ar = *p*-MeOC₆H₄) (Bruckner and Krámlí, C.A., 30, 5990) in 100 ml. EtOH and 50 ml. glacial AcOH was added 15 ml. H₂N₂O (d, 1.42) and the I reduced electrolytically at a c.d. of 0.07 amp./sq. cm.; the filtered catholyte yielded 2 g. *1-(p-methoxyphenyl)-2-nitropropyl acetate* (II), m. 145-7°, also obtained by oxidation of ArCH(OAc)CH(NHOH)Me·HCl (III) with 3*n* water. Similar electrolytic reduction of I (Ar = 3,4-CH₂₂C₆H₃) gave the corresponding II, m. 169-71° (decompn.), also obtained from the 3,4-CH₂O₂C₆H₃ analog of III. The 3,4-(MeO)₂C₆H₃ analog of III gives the corresponding II, m. 151-2° (decompn.). *1-(3,4-Diethoxyphenyl)* analog of II, from I (Ar = 3,4-(EtO)₂C₆H₃), m. 140-2° (decompn.). 13 references
István Finály

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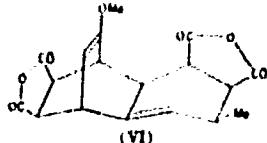
Addition of maleic anhydride to anethole. I. V. Brückner and J. Kováček (Univ. Siegen, Homb.). *J. Org. Chem.*, 13, 641-61 (1948).—Exptl. details of a preliminary report (*C.A.*, 43, 2900) are given. Maleic anhydride (1.60 g.), 300 g. anethole (II), and 8 g. PhNMe₂, stirred 4 hrs. in a bath at 80°, and the crystals filtered from the cooled mixt., washed until colorless with EtOAc, and vacuum-dried at 100°, gave 310 g. (44.6%) colorless homogeneous condensation product (III), m. 241° (decompn. began at 230°), after cryst. from EtOAc and vacuum-drying 10 hrs. at 100°. Conc. the filtrate from the reaction mixt., steam-distillg. the viscous residue (383 g.) to yield 17 g. II, concg. the remaining q.s. soln. to 300 ml., cooling, acidifying, washing the crystals with 200 ml. cold H₂O, and drying as before afforded 132 g. (16.8%) IV (total yield of condensation products, 61%). Assuming *cis-cis* addn. to *trans*-II, 4 stereoisomers, i.e. 2 racemic pairs (V and VI being arbitrarily chosen members of each),



(IV)



(V)



(VI)

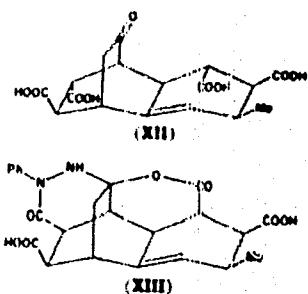
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are possible. The following evidence indicates III has the structure VI, but the presence and location of the double bond not in the enol ether group was not established. VI (4 g.) on vacuum distil. gave 3.3 g. oily distillate from which I, m.p. (after recryst., from EtOAc and then C₆H₆) and mixed m.p. 54-5°, crystall., and then II, m. and mixed m.p. 21-2°, distill. with steam. VI (1 g.) and 0.38 g. II heated 0.25 hr. at 230-5° until H₂S evolution ceased, the residue exdt. with hot EtOAc, and the clarified (charcoal) soln. concd. to 3 ml. and cooled, gave, after 2 recryst., from EtOAc, *3-methyl-7-methoxy-1,2-oxyphthalimide-anhydride*, yellow needles (greenish fluorescence in soln.), m. 214-17°, identical with that prep'd. earlier (I., C. A., 30, 12289). The sparkingly sol (1:100 in hot H₂O), crude, colorless, air-dried VII (0 g.), prep'd. by shaking 0.9 g. powd. VI 5 min. with 10 ml. 5 N NaOH, acidifying the cooled mixt. with 2 N HCl, and washing the crystals with 80 ml. ice-cold H₂O, changed mostly to the readily sol. IV on cryst. from H₂O, only 1/4 sepg. again as a tribhydrate (3 CO₂H, 1 lactone, and 1 OMe group), which on vacuum-drying at 100° formed anhyd. VII, m. 270-3° (decompn.). VII reverted to VI, m.p. (from EtOAc) and mixed m.p. 241° (decompn.), on boiling with 4 parts Ac₂O and dilg. the cooled soln. with Et₂O. VI (0.9 g.), boiled 10 min. in 20 ml. 5 N NaOH, the mixt. acidified with 10 ml. 10 N HCl, clarified (charcoal), and cooled, gave a mixt. (0 g.) of VII and IV from which 20 ml. boiling H₂O extil. the more sol. (1:1.8) IV, leaving 1 g. VII; cooling produced 2.8 g. colorless prisms of the tetrahydrate, which dried as above to anhyd. IV.

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from Ag_2O even after long boiling. With H_2NOH XIII gave a regular *cavane* ($4 \text{ CO}_2\text{H}$ groups), m. 224-5°. The di(phenylamide) (no OOC group), m. 280-5° (decomp.), colorless prisms from A-OH or $\text{PhN}(\text{H})_2$, corresponding to VIII was prepd. either by slowly heating 3.6 g. VI with 8 ml. freshly-distilled aniline and warming the crystals with hot HgOAc_2 , or from VIII (prepk. from IV) and aniline. IV (3.7 g.) and 0.8 g. $\text{PhN}(\text{H})_2\text{HCl}$, boiled 8 min. in 12 ml. H_2O , afforded colorless needles of the dihydroxydine deriv. (XIII), m. 180° after crystg. from H_2O and



vacuum-drying at 100°, which could not be titrated sharply as a dibasic acid but, on treating 0.1 g. in 25 ml. dry MeOH with CH_3N_3 in NaOEt , gave the di-Me ester, colorless needles from xylene, m. 205-300° (decomp.). An eq. soln. of 2 g. IV and 2 g. H_2NOH in 8 ml. H_2O , heated (steam bath) 1 hr., gave, on air-drying the recrystd. (from H_2O) product, *tetrahydrate* which, on vacuum-drying 10 hrs. at 100° or recrystg. from MeOH , formed an anhyd. dibasic acid (XIV), m. 210-11° (decomp.), having the empirical formula, $\text{C}_{11}\text{H}_{14}\text{NO}_4$, of a regular *cavane*. With boiling Ac_2O XIV gave neutral colorless prisms, $\text{C}_{11}\text{H}_{14}\text{NO}_3$, m. 270-2° (decomp.), probably the decarboxylated *cavane* of VIII. The melt from XIV, treated with Me_2CO , gave a colorless dibasic acid, $\text{C}_{11}\text{H}_{14}\text{NO}_3$, m. 274-5° (decomp.). With CH_3N_3 and Me_2SO_4 , XIV gave colorless products, m. 201-8° and 105°, resp., both of which contained more N than calcd. for a regular ester. Ultraviolet spectra are given for IV, VII, and XIII in aq. soln. and for XI and the tetra-Me ester of XII in CHCl_3 soln. XI, XII, and the tetra-Me ester of XIII show ketone bands that are absent in IV and VII.

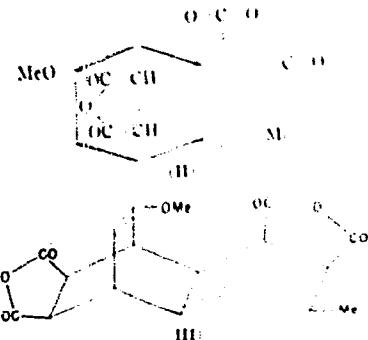
1. Moyer Hunzberger

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Application of the diene synthesis to aromatic systems.
 V. Brückner and József Kóyacs, *Magyar Kém. Lapja* 4, 438 (1949). The discovery and development of the diene synthesis is summarized, then the possibility of application to aromatic ring systems emphasized. Espts. confirmed that styrene derivs. also behave in principle as conjugated dienes. One olefinic double bond of a conjugated diene is replaceable by a double bond of a mononuclear aromatic system. The transformation of anethole with maleic anhydride was studied. Besides the heteropolymeric product obtained by Hudson and Hobson (C.A. 36, 6312^a), a well crystd. substance (I) could be sepd., the mol. ratio anethole:maleic anhydride was 1:2 in this addn. product, for which was suggested the formula II. Detailed further investigations proved that II is quite right and that I has the configuration shown in III.

formula III. By the original method the yield of I was only 8%; the addn. of PhNMe inhibited the heteropoly-



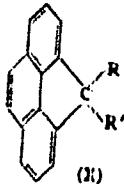
metric transformation so effectively that the yield of I was increased to 60% and I could easily be sepd. in pure form, m. 242°. Arguments are listed against the possibility of the structural formula proposed by Lora Tamayo and co-workers (C.A. 43, 2070^b). The initial mechanism of the diene synthetic transformation of styrene derivs. is briefly discussed. István Finály

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Addition of maleic anhydride to anethole: II. V. Hockner and J. Kovacs (Univ. Szeged, Hung.), *J. Org. Chem.*, 14, 66-70 (1949); cf. *C.A.*, 44, 1024c.—Although I resisted catalytic hydrogenation (Pt or Pd) at atm. pressure, the existence of the double bond not in the enol ether group of II and III (prepd. from I) was demonstrated by bromination and oxidation with $HgCl_2$. This completed the proof of structures for I, II (3.04 g.) in 200 ml. 2% KOH, added to 0.3 g. Br in 60 ml. 10% KOH; the soln. filtered after 2 days, treated with Na_2SO_3 , acidified (pH 1-8) with 2 N HCl, and evapd. in vacuo to dryness; the combined solns. from boiling the residue twice with dry MeOH evapd. (reduced pressure), and the oily residue crystd.; several times (once with charcoal) from H_2O , gave 1.6 g. purified (of mono-Br derv. of II, colorless needles, m. 180°, 0.4 g. of which in dry MeOH with CH_3N_2 gave the 4-Br derv. (IV) of III, colorless needles, m. 217-8° (after recrystn. from MeOH and the Et_2OAc). Adding 25 ml. of 7% soln. of Br in dry MeOH to 4 g. II in 15 ml. dry MeOH, evapd. after the Br color disappeared (several min.), triturating the yellowish oil with 12 ml. H_2O , boiling the resulting oily crystals a few min. with 100 ml. H_2O , and concq. the filtered soln. to 80 ml. also gave 1.1 g. and concq. the filtered soln. to 80 ml. also gave 1.1 g.

gives 1-(*β*-cyanethyl)-2,2,4-trimethyl-1,2-dihydrofluorenene, viscous oil, b.p. 185-94°, which is saponif. to the corresponding propionic acid (VIII), m. 144-5°. Treatment of 31 g. acid chloride of VIII in CS_2 with 50 g. $SnCl_4$ gives 1,1'-[2,2,4-trimethyl-4'-buto-1,3,1',3',4'-hexahydro-8,8'-biisophenyl]ipiron, b.p. 188-91°, crystals from $CHCl_3$ -ligroin, m. 130-8°. Dropwise addn. of 345 g. $SnCl_4$ to 300 g. β,β' -(9-fluorenylidene)dipropionyl chloride at 0°, stirring the mixt. 4 hrs., and refluxing it 16 hrs. give 1,1'-[4,4'-dibuto-1,2,3,4,1',3',4'-octahydro-8,8'-biisophenyl]ipiron (IX), b.p. 190-8° (mol. still), crystals from $CHCl_3$ -ligroin, m. 207-8° (dioxane, m. 224-5°). The acid portion from this expt. (20.8 g.) was refluxed with 2% $EtOH-HCl$, giving *Ei* 4-keto-1,2,3,4-tetrahydro-1-fluoranonepropionate, b.p. 189-93°, which, saponif., gives the free acid, m. 183-5° (oxime, m. 210-12°). Reduction of 13.7 g. IX in 200 cc. $AcOH$ at 20° in the presence of PtO 10 hrs. gives 1,1'-[4,4'-dihydroxy-1,2,3,4,1',3',4'-octahydro-8,8'-biisophenyl]ipiron, m. 200-1° (*di-Ac* derv., prep'd. with $Ac_2O-C_6H_4-N$ 12 hrs. at 20°, m. 150-3°, subliming at 160° in a high vacuum). 4,5-Methylene-phenanthrene (X, $R = R' = H$) (47.5 g.) with 30 g. $CH_3CH_2CH_2CN$ gives the dinitrile (X, $R = R' = CH_3CH_2CH_2CO_2H$) which, saponif., gives the dicarboxylic acid (X, $R = R' = CH_3CH_2CO_2H$); the latter, with $SOCl_2$ (X, $R = R' = CH_3CH_2CO_2H$) gives the acid chloride (XI) (X, $R = R' = CH_3CH_2COCl$).



Dropwise addn. of 75 g. SnCl_4 to 47 g. XII in 200 cc. CS_2 and stirring the mixt. 72 hrs. at 20° give *1,1'-(4,4'-di-naphthylidene)-4,4',4'',4'''-octahydro-8,8'-biphenyl*, b.p. 200°, crystals from AcOEt -ligroin, m. 182-3°. Reducing a mixt. (prep'd. in the order given) of 12 g. amalgamated Zn filings, 7.6 cc. H_2O , 17.5 cc. concd. HCl , 10 cc. PhMe , 2 drops AcOH , and 1 g. II (or III) 24 hrs. with 3 addns. of 5 cc. concd. HCl after each 6 hrs. gives *1,1'-(1,2,3,4,1',2',3',4'-octahydro-8,8'-bisnaphthylidene)* (XII), colorless oil with bluish fluorescence, b.p. 130°, b.p. 160°. Attempts to dehydrogenate XII by heating 1 g. with 1 g. Pd-charcoal in 80 cc. abs. Me_2CO 8 hrs. at 240-250° or 3.4 g. with 0.9 g. pond. S 3 hrs. at 210-220° in a slight vacuum failed. Attempts to dehydrogenate IX with chloranil or by heating 2.75 g. with 1.0 g. Sc 12 hrs. at 280-300° also failed (cf. v. Braun and Rath, C.A. 22, 2748).

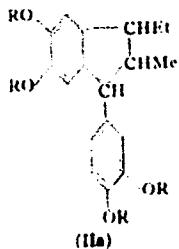
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The reaction of propenylphenol ether dibromides with sodium iodide. J. Kovacs (Univ. Szeged, Hung.). *J. Org. Chem.* 15, 16-18 (1950).--The reaction of 3,4-($\text{RO}_2\text{C}_6\text{H}_3\text{CHBrCHMe}$)₂ (I) with NaI is studied. Keeping 3.4 g. I (R = Me) in 15 cc. Me_2CO with 3 g. NaI in 30 cc. Me_2CO 24 hrs. at room temp., decolorizing NaI in the mixt. with NaHSO_3 , dilut. it with H_2O , and evtg. with ether give 0.4 g. diisobenzyl di-Me ether (II) (IIa, R = Me), needles, m. 99-100°. Treating 3 g. 3,4-($\text{RO}_2\text{C}_6\text{H}_3\text{CHBrCHMe}$)₂ (III) in 20 cc. CHCl_3 with 6.2 g. NaI at 0° gives I (R = RO) (IV), plates, m. 110°. IV and Br at 0° gives 1-(3,4-dihydroxyphenyl)-2-methyl-3-ethyl-NaI give 3,4-($\text{R}_2\text{O}_2\text{C}_6\text{H}_3\text{CH}_2\text{CHMe}$)₂ (V) (Va, R = RO), m. 101°. Satg. a soln. of 1 g. III in 5 cc. ether with HCl and keeping the mixt. overnight give V. Keeping V in abs. ether with an excess of Br overnight gives a mono-Br deriv., $\text{C}_6\text{H}_5\text{O}_2\text{Br}$, long needles, m. 114°. Treating 4.5 g. I (R = PhCH₂) (VI) 2 days with NaI in Me_2CO gives 0.5 g. IIa (R = PhCH₂) (VII), needles, m. 114-16°. In some cases 3,4-($\text{PhCH}_2\text{O}_2\text{C}_6\text{H}_3\text{CH}_2\text{CHMe}$), needles, m. 70-1°, is obtained; with Br it gives VI, m. 120°. Hydrogenation of 0.08 g. VII in 30 cc. EtOH with Pd-charcoal 15 min. gives 1-(3,4-dihydrophenyl)-2-methyl-3-ethyl-3,6-dihydroxyindan (IIa, R = H), needles, m. 106°. Bromination of VII gives a mono-Br deriv., $\text{C}_6\text{H}_5\text{O}_2\text{Br}$, m. 141°. Refining 3 hrs. 4.5 g. 3,4-HO(Br) $\text{C}_6\text{H}_3\text{CH}_2\text{CHMe}$ in 25 cc. EtOH contg. 0.01 g. Na with 3.3 cc. PhCH_2Cl gives 5 g. 3,4-Pt $\text{C}_6\text{H}_3\text{O}_2\text{Br}$ $\text{C}_6\text{H}_3\text{CH}_2\text{CHMe}$ (VIII), long flat needles, m. 75°, dibromide (IX), m. 114°. Treating IX with NaI gives VIII, m. 75°. Treating 3,4-MeO(PhCH_2) $\text{C}_6\text{H}_3\text{CH}_2\text{CHBrCHMe}$ (X) with NaI gives isobenzyl ether, m. 58°, which with Br again gives X, m. 122°. 4-MeO $\text{C}_6\text{H}_3\text{CH}_2\text{CHBrCHMe}$ and NaI give anethole, m. 21°.

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The structure of the anethole-maleic anhydride bis-adduct, György Bruckner, János Kunkay, and Péter Huhn (Univ., Szeged, Hung.). *Magyar Kem. Folyóirat* **36**, 73-4 (1950).—Further studies were made to support the structure previously proposed (*C.A.* **43**, 2068) for the bis-adduct (**I**) of anethole and maleic anhydride as opposed to the structure of Lora-Tarayao (*C.A.* **43**, 2070c). When **I** was boiled with **III** and glacial AcOH and the products were methylated, various compds., including di-Me fumarate and (cis)-methyl-7-methoxy-1,2,3,4-tetrahydro-1,2-naphthalenedicarbonyl, and (**II**) were identified in the mixt. obtained. The formation of both compds. is easily explained by the proposed structural formula but not by that of L.T. Further support is offered by the fact that the anhydride of **II** did not react with maleic acid anhydride at 80° (the temp. at which **I** is formed) but only at 180° and gave a product, m. 200°, against 243° for the original **I**. István Finlay

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The reaction of the dibromides of styrene and cinnamyl derivatives with sodium iodide. Jan J. Kowalewski (Institute of Technology), Myszkow, Poland, "Polymer," 14, 200-8 (1970); cf. C.I., 44, 446a. The general procedure for treating dibromides with NaI was as follows: The dibromide and NaI in abn. MeCO were kept at room temp. 1-2 days; the soln. dilut. with water, and the iodine absorbed by ag. NaHSO₄ or Na₂S₂O₃. Dimeric isoeugenol Me ether [1-(3,4-dimethoxyphenyl)-2-methyl-3-ethyl-5,6-dimethoxyindan, m. 99-100°] was obtained in 0.4 g. yield, by treating 0.1 g. Ph₂C(Me)₂CH₂Br₂ in 15 ml. abn. MeCO with 0.5 g. NaI in 50 ml. abn. MeCO, keeping 24 hr., at room temp., absorbing the free iodine, taking up the oily product in ether, washing with water, drying, and recryst. from MeOH. 1-(3,4-Dibromophenyl)-1,2-dibromopropane, m. 110°, was obtained in 10 g. yield by adding 0.2 g. Br k., 10 ml. dry CHCl₃ to 8 g. 3,4-(EtO)₂C₆H₃:CHMe (I) in 20 ml. dry CHCl₃ at -8°, filtering, and recryst. from HgO; Dimeric I Et ether [1-(3,4-dimethoxyphenyl)-2-methyl-3-

ethyl-6,6-dimethoxyindan] (II), m. 90° (from EtOH), was similarly obtained in 0.3 g. yield (33.3%). II was also prep'd. by nitr. with HCl of 1 g. I in 5 ml. ether, removal of the solvent by vacuum distn., and recryst. from MeOH. The Br deriv., m. 114°, mol. wt. 471.5, of I was obtained by keeping an Et₂O soln. of II with excess Br overnight. Dimeric 3,4-(Ph₂CH₂O)₂C₆H₃:CH:CHMe [1-(3,4-dibenzoyloxyphenyl)-2-methyl-3-ethyl-6,6-dibenzoyloxyindan], m. 114-116° (from EtOH), mono-Br deriv., m. 141°, and diasarone [1-(2,4,6-trimethoxy)-2-methyl-3-4(ethyl-4,6,7-trimethoxyindan], m. 108-9° (from MeOH), were also prep'd. 3-Benzoyloxy-4-ethoxy-1-propenylbenzene, m. 75°, was obtained in 8.0 g. yield by adding to 0.6 g. Na in 25 ml. abn. BuOH 4.5 g. 3,4-HOC₆H₃:CH₂CH₂:CHMe and 3.0 ml. PhCH₂Cl, reacting 3 hrs., and recryst. from EtOH. 1-(3-Benzoyloxy-4-ethoxyphenyl)-1,2-dibromopropane, m. 114° (from ligroin), isoeugenol benzyl ether, m. 58°, and anethole, m. 51°, were also prep'd. It was thus shown that the dibromides of 3,4-dibenzoyloxy-, 3,4-dilethoxy-, 2,4,6-trimethoxy-, and 3,4-dimethoxy-x-propenylbenzenes formed dimeric compds. as well as the Br-free monomeric compds. The dibromides of styrene, stilbene, cinnamyl alc., PhCH₂:CHCH₂OMe, anethole, isosafrole, isoeugenol benzyl ether, and cinnamic acid, however, yielded only Br-free monomeric compds.

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KARADY, I.; KOVACS, B.; KOVACS, J.; SZERDAHELDI, M.; VAJDA, P.

Investigation on the isolation, identification and chemical determination of an organism-formed and hitherto unknown antihistaminic substance.
Magy. belorv. Arch. 14 no.4:150-155 1951. (CIML 21:4)

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